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March 30, 2021

Docket Control
ARIZONA CORPORATION COMMISSION
1200 West Washington Street
Phoenix, Arizona 85007

RE: Arizona Public Service Company's Summer Preparedness Presentation
Docket No. E-99999A-21-0039

Attached please find Arizona Public Service Company's Summer Preparedness presentation which was delivered to Commissioners and Staff on March 30, 2021.

Please let me know if you have any questions.

Sincerely,

/s/ Rod Ross

Rodney J. Ross

RJR/agc
Attachment

Arizona Public Service Company 2021 Summer Preparedness

Arizona Corporation Commission
March 30, 2021



Presenter

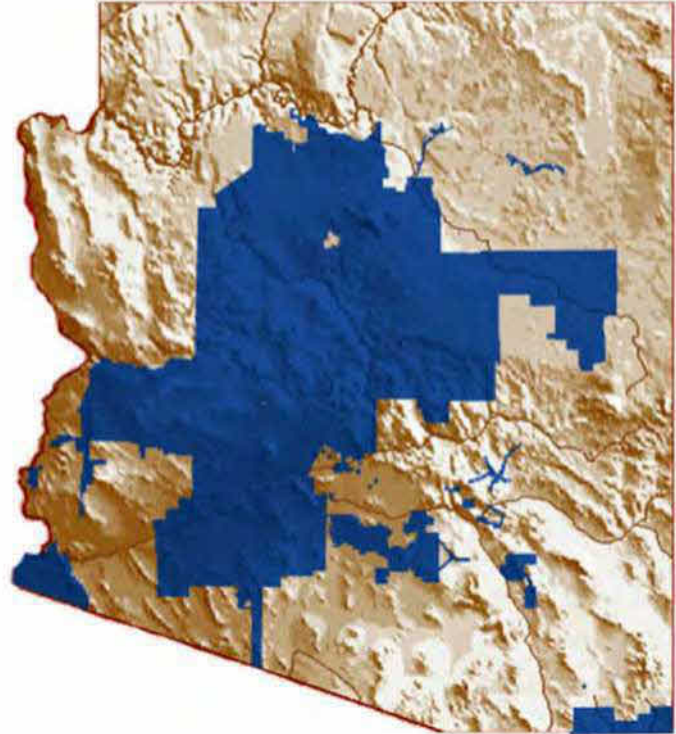
Brian Cole

General Manager,
Resource Management



APS Service Territory

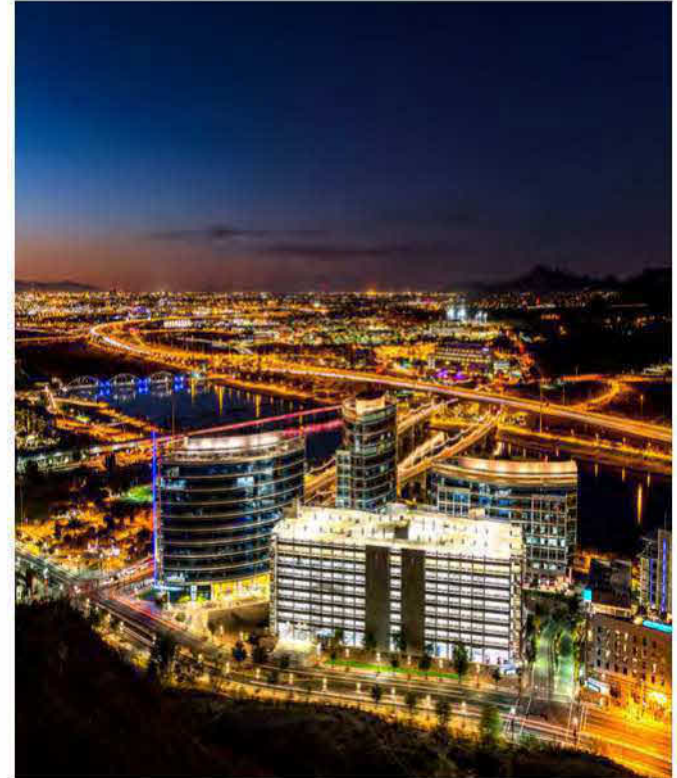
- 11 of Arizona's 15 counties
- 34,646 square mile service area
- Serving about 1.3 million customers
- Nearly 500 substations; roughly 300,000 transformers; more than 550,000 poles and structures
- Approximately 6,000 miles of transmission lines, 11,000 miles of overhead lines and 22,000 miles of underground cable



2020 Recap

APS Results

- Arizona experienced the hottest summer on record, with 53 days above 110 degrees, and 14 days above 115 degrees
- APS set an all-time peak in the summer 2020 at nearly 7700 MW
- Customer partnerships contributed to a successful summer
- Focus on resource planning, sufficient reserve margins, fire mitigation, and overall preparedness were key to maintaining reliability



2021 Peak Resources and Demand



2021 APS Resource Diversity



2021 Resource Peak Capacity (MWs)

	PEAK CAPACITY
Nuclear	1,146
Coal	1,343
Natural Gas	5,094
Owned	3,296
PPAs	1,798
Short-term Purchases*	450
Microgrid/ESS (Quick Start)	32
Renewables	462
Solar	403
Owned Solar	120
Solar PPAs	283
Wind (PPAs)	33
Other (PPAs)	26
Incremental Customer-Based	105
Energy Efficiency	64
Distributed Energy	2
Demand Response	39
TOTAL	8,632

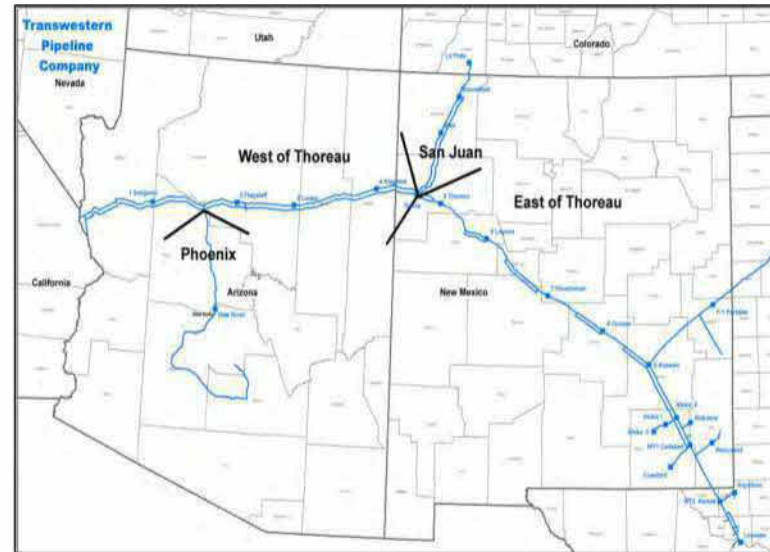
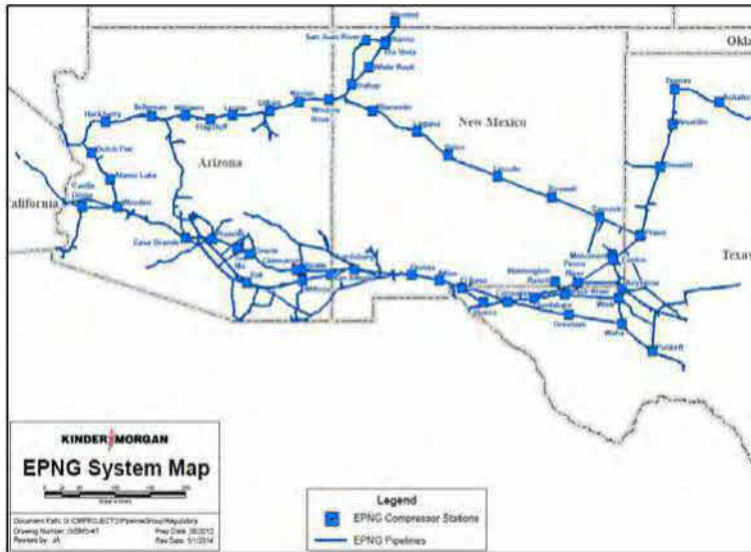
*Includes 250 MW Hydro from Powerex

APS has adequate fuel supply for all its generating facilities

- **Palo Verde**
 - 100% of fuel requirements contracted through 2026
 - Overall station capacity factor 91.24% in 2020
- **Conventional Generation**
 - Fuel contracts in place for other APS generating facilities



APS Natural Gas Supply and Transport



- Primary firm gas transportation contracts on three interstate gas pipelines: El Paso, Transwestern, North Baja (not pictured)
- Access to San Juan and Permian gas supply basins
- Firm gas transportation contracts to meet seasonal and annual peak needs

Power Plant Summer Operations

- Seasonal readiness procedure in use since 2009
 - Walkdowns ensure good material condition
 - Outfit employees with appropriate PPE
 - Review lessons learned
 - Survey critical control systems
 - Identify/prepare critical spares
- Continued Response to COVID-19
 - Adhering to CDC guidelines

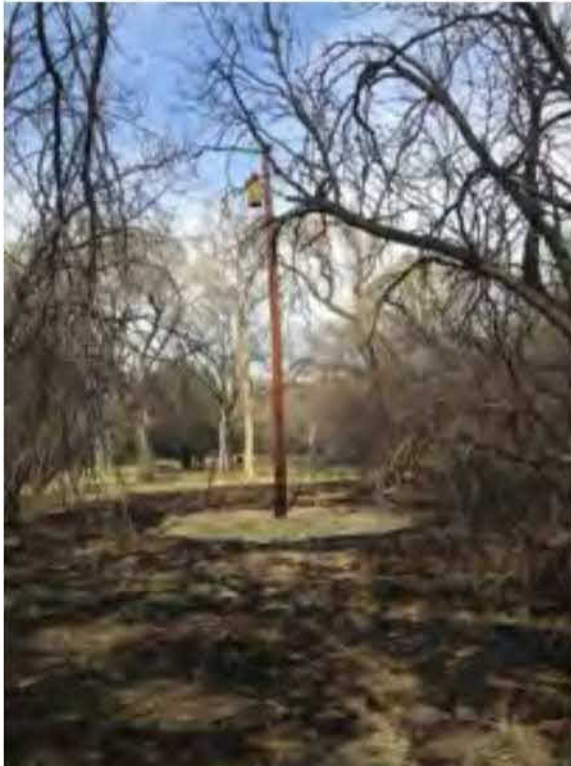


Transmission & Distribution

- 2020 Recap
 - 209 poles replaced
 - 2,536 wildfires statewide
- Preventative Maintenance
 - Patrols and Inspections
 - Completed summer-specific substation maintenance
- Infrastructure additions/replacements
- Operational Strategies
 - Planned outages & Extreme Heat Days
 - Increased focus on customer communication
 - Emergency Operations Center Drills



Fire Mitigation Preparedness



- Comprehensive Plan
 - Supports public safety, first responders, and land management
- Fire Mitigation Patrols
 - 2,870 miles of overhead lines
- Defensible Space Around Poles (DSAP)
- Engineering Focus
- Reclosing Strategy
- Public Outreach
 - Send approximately 237,000 postcards

Focus on the customer



- Improved Outage Map
- Text alerts
- Ice distribution
- aps.com facelift
- 24/7 call center
- Continued response to COVID-19

Emergency Management

External Preparedness and Response

- Update mutual assistance with neighboring utilities (SRP & TEP)
- Coordination of summer operating study with nearby utilities
- Fire and emergency management coordination with various Federal, State, and Local agencies.

Internal Preparedness and Response

- Black start system restoration drill
- Electric Load Curtailment Plan exercise
- Disaster Recovery Plan exercise



Summary

APS has adequate generation resources, fuel supplies and transmission capacity in place to reliably meet customer demand this summer.

